

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/041,054A
Source: IFW16
Date Processed by STIC: 1/3/05

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/041,054A

DATE: 01/03/2005

TIME: 16:53:27

Input Set : A:\ORT1560NP.Subst.Seq.List.txt

Output Set: N:\CRF4\01032005\J041054A.raw

3 <110> APPLICANT: Darrow, Andrew
 4 Qi, Jenson
 5 Andrade-Gordon, Patricia
 7 <120> TITLE OF INVENTION: DNA ENCODING THE HUMAN SERINE PROTEASE T
 9 <130> FILE REFERENCE: ORT-1560
 11 <140> CURRENT APPLICATION NUMBER: 10/041,054A
 12 <141> CURRENT FILING DATE: 2002-01-07
 14 <150> PRIOR APPLICATION NUMBER: 09/386,653
 15 <151> PRIOR FILING DATE: 1999-08-31
 17 <160> NUMBER OF SEQ ID NOS: 11
 19 <170> SOFTWARE: PatentIn version 3.3
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 1110
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Homo sapiens
 26 <400> SEQUENCE: 1

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31	ccaggatgct	gaaccgaatg	gtgggcgggc	aggacacgc	ggagggcgag	tggccctggc	180
33	aagtcatcgat	ccagcgcaac	gaaagccact	tctgcggggg	cagcctcatc	gcggagcagt	240
35	gggtcctgac	ggctgcgcac	tgcttccgca	acacccctga	gacgtccctg	taccaggtcc	300
37	tgtctggggc	aaggcagcta	gtgcagccgg	gaccacacgc	tatgtatgcc	cgggtgaggc	360
39	agtgaggag	caacccccctg	taccaggcga	cggcctccag	cgctgacgtg	gccctgggtgg	420
41	agctggaggc	accagtgc	ttcaccaatt	acatccccc	cgtgtccctg	cctgaccct	480
43	cggtgatctt	tgagacgggc	atgaactgt	gggtcactgg	ctggggcagc	cccagtggagg	540
45	aagacccct	gcccgaaccg	cgatcctgc	agaaactcgc	tgtgcccac	atcgacacac	600
47	ccaaagtgcaa	cctgctctac	agcaaagaca	ccgagtttgg	ctaccaaccc	aaaaccatca	660
49	agaatgacat	gctgtgcgccc	ggcttcgagg	agggcaagaa	ggatgcctgc	aagggcgact	720
51	cggggccccc	cctgggtgc	ctcggtggc	atcggtggct	gcaggcgggg	gtgatcagct	780
53	ggggtgaggg	ctgtccccgc	cagaaccggc	cagggtctta	catccgtgtc	accgcccacc	840
55	acaactggat	ccatcgatc	atccccaaac	tgcagttcca	gccagcgagg	ttgggcggcc	900
57	agaagtgaga	ccccccccggc	caggagcccc	ttgagcagag	ctctgcaccc	agctgcccgg	960
59	cccacaccat	cctgctggc	ctccccagcgc	tgctgttgca	cctgtgagcc	ccaccagact	1020
61	catttgtaaa	tagcgtctt	tcctcccttc	tcaaatacc	ttatatttatt	tatgtttctc	1080
63	ccaataaaaa	cccgccctgt	gtgccagctg				1110
66	<210>	SEQ ID NO:	2				
67	<211>	LENGTH:	20				
68	<212>	TYPE:	DNA				
69	<213>	ORGANISM:	Artificial				
71	<220>	FEATURE:					
72	<223>	OTHER INFORMATION:	ProtT PCRTP-U PCR primer				
74	<400>	SEQUENCE:	2				
75	gcccaggcctg	aggacatgag					20

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78 <210> SEQ ID NO: 3
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80 <212> TYPE: DNA
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83 <220> FEATURE:
84 <223> OTHER INFORMATION: ProtT PCRTP-L PCR primer
86 <400> SEQUENCE: 3
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91 <211> LENGTH: 40
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial
95 <220> FEATURE:
96 <223> OTHER INFORMATION: ProtT PCTTP-PP primer
98 <400> SEQUENCE: 4
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103 <211> LENGTH: 30
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial
107 <220> FEATURE:
108 <223> OTHER INFORMATION: ProtT Xba-U PCR primer
110 <400> SEQUENCE: 5
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115 <211> LENGTH: 30
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial
119 <220> FEATURE:
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127 <211> LENGTH: 290
128 <212> TYPE: PRT
129 <213> ORGANISM: Homo sapiens
131 <400> SEQUENCE: 7
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137 Ser Gln Arg Ala Lys Ala Ala Thr Ala Cys Gly Arg Pro Arg Met Leu
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141 Asn Arg Met Val Gly Gly Gln Asp Thr Gln Glu Gly Glu Trp Pro Trp
142          35          40          45
145 Gln Val Ser Ile Gln Arg Asn Gly Ser His Phe Cys Gly Gly Ser Leu
146          50          55          60
149 Ile Ala Glu Gln Trp Val Leu Thr Ala Ala His Cys Phe Arg Asn Thr
150          65          70          75          80
153 Ser Glu Thr Ser Leu Tyr Gln Val Leu Leu Gly Ala Arg Gln Leu Val
154          85          90          95

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158							100				105					110	
161	Asn	Pro	Leu	Tyr	Gln	Gly	Thr	Ala	Ser	Ser	Ala	Asp	Val	Ala	Leu	Val	
162							115				120					125	
165	Glu	Leu	Glu	Ala	Pro	Val	Pro	Phe	Thr	Asn	Tyr	Ile	Leu	Pro	Val	Cys	
166							130				135					140	
169	Leu	Pro	Asp	Pro	Ser	Val	Ile	Phe	Glu	Thr	Gly	Met	Asn	Cys	Trp	Val	
170	145							150				155					160
173	Thr	Gly	Trp	Gly	Ser	Pro	Ser	Glu	Glu	Asp	Leu	Leu	Pro	Glu	Pro	Arg	
174							165				170					175	
177	Ile	Leu	Gln	Lys	Leu	Ala	Val	Pro	Ile	Ile	Asp	Thr	Pro	Lys	Cys	Asn	
178							180				185					190	
181	Leu	Leu	Tyr	Ser	Lys	Asp	Thr	Glu	Phe	Gly	Tyr	Gln	Pro	Lys	Thr	Ile	
182							195				200					205	
185	Lys	Asn	Asp	Met	Leu	Cys	Ala	Gly	Phe	Glu	Glu	Gly	Lys	Lys	Asp	Ala	
186							210				215					220	
189	Cys	Lys	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val	Cys	Leu	Val	Gly	Gln	Ser	
190	225							230				235					240
193	Trp	Leu	Gln	Ala	Gly	Val	Ile	Ser	Trp	Gly	Glu	Gly	Cys	Ala	Arg	Gln	
194							245				250					255	
197	Asn	Arg	Pro	Gly	Val	Tyr	Ile	Arg	Val	Thr	Ala	His	His	Asn	Trp	Ile	
198							260				265					270	
201	His	Arg	Ile	Ile	Pro	Lys	Leu	Gln	Phe	Gln	Pro	Ala	Arg	Leu	Gly	Gly	
202							275				280					285	
205	Gln	Lys															
206		290															
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211	<212>	TYPE:	DNA														
212	<213>	ORGANISM:	Artificial														
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215	<223>	OTHER INFORMATION:	PFEK-PROTT-HIS fusion protein nucleic acid sequence														
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222	gtggacgcgg	ccgccttgc	tgcccccttt	gatgatgatg	acaagatcgt	tggggctat										180	
224	gctctagagg	aggcgagtg	gccctggaa	gtcagcatcc	agcgcaacgg	aagccacttc										240	
226	tgccccggca	gcctcatcgc	ggagcagtgg	gtcctgacgg	ctgcgcactg	cttccgcaac										300	
228	acctctgaga	cgtccctgta	ccaggtcctg	ctgggggcaa	ggcagctagt	gcagccggaa										360	
230	ccacacgcta	tgtatgccc	ggtgaggccag	gtggagagca	acccccgtta	ccagggcactg										420	
232	gcctccagcg	ctgacgtggc	cctggtgag	ctggaggcac	cagtgcctt	caccaattac										480	
234	atcctcccc	tgtgcctgcc	tgacccctcg	gtgatcttg	agacggcat	gaactgctgg										540	
236	gtcaactggct	ggggcagccc	cagtgagaa	gacctcctgc	ccgaaccgcg	gatcctgcag										600	
238	aaactcgctg	tgcccatcat	cgacacaccc	aagtgcaccc	tgctctacag	caaagacacc										660	
240	gagtttgct	accaacccaa	aaccatcaag	aatgacatgc	tgtgcggcg	cttcgaggag										720	
242	ggcaagaagg	atgcctgcaa	gggcgactcg	ggccggccccc	tggtgtgcct	cgtgggtcag										780	
244	tctgtggctgc	aggcgggggt	gatcagctgg	ggtgagggtct	gtgcccggca	gaaccggccca										840	
246	gttgtctaca	tccgtgtcac	cgccaccac	aactggatcc	atcggatcat	ccccaaactg										900	
248	cagttccagc	cagcgagggt	gggcggccag	aagtctagac	atcaccatca	ccatcactag										960	

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250 cggccgcttc ccttagtga gggtaatgc ttcgagcaga catgataaga tacattgtg 1020
 252 agtttgaca aaccacaact agaatgcagt gaaaaaaatg ctttatttgt gaaatttg 1080
 254 atgctattgc tttattgtta accattataa gctgcaataa acaagttgac 1130
 257 <210> SEQ ID NO: 9
 258 <211> LENGTH: 315
 259 <212> TYPE: PRT
 260 <213> ORGANISM: Artificial
 262 <220> FEATURE:
 263 <223> OTHER INFORMATION: PFEK-PROTT-HIS fusion protein amino acid sequence
 265 <400> SEQUENCE: 9
 267 Met Asp Ser Lys Gly Ser Ser Gln Lys Ser Arg Leu Leu Leu Leu 1
 268 1 5 10 15
 271 Val Val Ser Asn Leu Leu Leu Cys Gln Gly Val Val Ser Asp Tyr Lys
 272 20 25 30
 275 Asp Asp Asp Asp Val Asp Ala Ala Ala Leu Ala Pro Phe Asp Asp
 276 35 40 45
 279 Asp Asp Lys Ile Val Gly Gly Tyr Ala Leu Glu Glu Gly Glu Trp Pro
 280 50 55 60
 283 Trp Gln Val Ser Ile Gln Arg Asn Gly Ser His Phe Cys Gly Gly Ser
 284 65 70 75 80
 287 Leu Ile Ala Glu Gln Trp Val Leu Thr Ala Ala His Cys Phe Arg Asn
 288 85 90 95
 291 Thr Ser Glu Thr Ser Leu Tyr Gln Val Leu Leu Gly Ala Arg Gln Leu
 292 100 105 110
 295 Val Gln Pro Gly Pro His Ala Met Tyr Ala Arg Val Arg Gln Val Glu
 296 115 120 125
 299 Ser Asn Pro Leu Tyr Gln Gly Thr Ala Ser Ser Ala Asp Val Ala Leu
 300 130 135 140
 303 Val Glu Leu Glu Ala Pro Val Pro Phe Thr Asn Tyr Ile Leu Pro Val
 304 145 150 155 160
 307 Cys Leu Pro Asp Pro Ser Val Ile Phe Glu Thr Gly Met Asn Cys Trp
 308 165 170 175
 311 Val Thr Gly Trp Gly Ser Pro Ser Glu Glu Asp Leu Leu Pro Glu Pro
 312 180 185 190
 315 Arg Ile Leu Gln Lys Leu Ala Val Pro Ile Ile Asp Thr Pro Lys Cys
 316 195 200 205
 319 Asn Leu Leu Tyr Ser Lys Asp Thr Glu Phe Gly Tyr Gln Pro Lys Thr
 320 210 215 220
 323 Ile Lys Asn Asp Met Leu Cys Ala Gly Phe Glu Glu Gly Lys Lys Asp
 324 225 230 235 240
 327 Ala Cys Lys Gly Asp Ser Gly Gly Pro Leu Val Cys Leu Val Gly Gln
 328 245 250 255
 331 Ser Trp Leu Gln Ala Gly Val Ile Ser Trp Gly Glu Gly Cys Ala Arg
 332 260 265 270
 335 Gln Asn Arg Pro Gly Val Tyr Ile Arg Val Thr Ala His His Asn Trp
 336 275 280 285
 339 Ile His Arg Ile Ile Pro Lys Leu Gln Phe Gln Pro Ala Arg Leu Gly
 340 290 295 300
 343 Gly Gln Lys Ser Arg His His His His His His

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Input Set : A:\ORT1560NP.Subst.Seq.List.txt

Output Set: N:\CRF4\01032005\J041054A.raw

344 305 310 315
347 <210> SEQ ID NO: 10
348 <211> LENGTH: 4
349 <212> TYPE: PRT
350 <213> ORGANISM: Artificial
352 <220> FEATURE:
353 <223> OTHER INFORMATION: Chromogenic substrate 5
356 <220> FEATURE:
357 <221> NAME/KEY: MISC_FEATURE
358 <222> LOCATION: (1)..(1)
359 <223> OTHER INFORMATION: N-Succinyl-alanine
361 <220> FEATURE:
362 <221> NAME/KEY: MISC_FEATURE
363 <222> LOCATION: (4)..(4)
364 <223> OTHER INFORMATION: Phe-p-nitroanilide
366 <400> SEQUENCE: 10
W--> 368 Xaa Ala Pro Xaa
369 1
372 <210> SEQ ID NO: 11
373 <211> LENGTH: 4
374 <212> TYPE: PRT
375 <213> ORGANISM: Artificial
377 <220> FEATURE:
378 <223> OTHER INFORMATION: Chromogenic substrate 6
381 <220> FEATURE:
382 <221> NAME/KEY: MISC_FEATURE
383 <222> LOCATION: (1)..(1)
384 <223> OTHER INFORMATION: N-(methoxysuccinyl)-Ala
386 <220> FEATURE:
387 <221> NAME/KEY: MISC_FEATURE
388 <222> LOCATION: (4)..(4)
389 <223> OTHER INFORMATION: Val-p-nitroanilide
391 <400> SEQUENCE: 11
W--> 393 Xaa Ala Pro Xaa
394 1

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/03/2005
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:10; Xaa Pos. ~~1,4~~
Seq#:11; Xaa Pos. ~~1,4~~

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:2,3,4,5,6,8,9,10,11

VERIFICATION SUMMARY

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L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0